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(71)Applicant : FUJI XEROX CO LTD

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(72)Inventor : KAKINUMA TAKEO

ITO KENSUKE

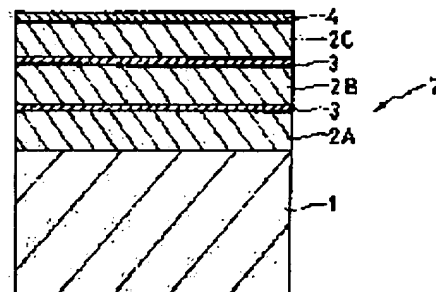
KOSHIMIZU MINORU

(54) REVERSIBLE COLOR IMAGE FORMING METHOD AND APPARATUS

(57)Abstract:

PURPOSE: To form a color image by a simple and rapid process high in energy efficiency in a reversible color image forming method.

CONSTITUTION: In a reversible color image forming method forming a plurality of color images on a reversible color thermal recording medium wherein two or more kinds of reversible thermal color forming composition (recording layers 2A, 2B, 2C) different in developed hue and color erasing start temp. are separately and independently provided on a support 1, the hues of all of the composition are developed in an initial stage and the developed color composition are successively heated at different temps. in a non-imagewise manner to erase the colors of the composition (recording layers 2A, 2B, 2C) to form a color image by a simple and rapid process high in energy efficiency.



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PATENT ABSTRACTS OF JAPAN

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(21)Application number : 07-205932

(71)Applicant : MITSUBISHI PLASTICS IND LTD

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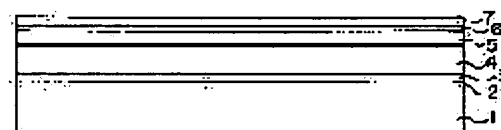
(72)Inventor : SONE SHOHEI

(54) REVERSIBLE HEAT-SENSITIVE RECORDING MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To realize the display of a plurality of different colors by a structure wherein a coloring layer, which has coloring portions different from each other, and a recording layer, which contains an electron donating and colorable compound and an electron acceptable compound and in which developed color state and erased color state are repeated by means of the temperature condition of heat treatment, are laminated to each other.

SOLUTION: This reversible heat-sensitive recording medium is produced by laminating at least a coloring layer 2 having a plurality of different coloring portions and a recording layer 5, which contains an electron donating and colorable compound and an electron acceptable compound and in which developed color state and erased color state are repeated by means of the temperature condition of heat treatment, to each other. Further, the reversible heat-sensitive recording material used in the recording layer 5 has a property to close lactone ring by coming the electron donating and colorable compound due to the softening of a polymer binder under heat, resulting in developing color. Furthermore, when the electron donating and colorable compound under developed color state is separated from the electron acceptable compound or comes into contact with the electron donating compound, the lactone ring portion is closed, resulting in erasing color.



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